

In the ClaimsClaims 1-112 (Cancelled)Claim 113 (New):

An isolated polynucleotide encoding a mutant c-Src polypeptide, wherein said mutant c-Src polypeptide comprises SEQ ID NO:4.

Claim 114 (New):

The isolated polynucleotide of claim 113, wherein said polynucleotide comprises nucleotides 1 to 1593 of SEQ ID NO:3.

Claim 115 (New):

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The isolated polynucleotide of claim 113, wherein said mutant c-Src polypeptide consists of SEQ ID NO:4.

Claim 116 (New):

An isolated polynucleotide encoding a mutant c-Src polypeptide, wherein said polynucleotide comprises nucleotides 1 to 1593 of SEQ ID NO:3, or a full-length complement thereof.

Claim 117 (New):

An isolated transgenic cell having incorporated therein a recombinant construct, wherein said recombinant construct comprises:

- (a) a polynucleotide encoding a mutant c-Src polypeptide, wherein said mutant c-Src polypeptide comprises SEQ ID NO:4; and
- (b) at least one regulatory element operably linked to said polynucleotide.

Claim 118 (New):

The isolated transgenic cell of claim 117, wherein said polynucleotide comprises nucleotides 1 to 1593 of SEQ ID NO:3.

Claim 119 (New):

The isolated transgenic cell of claim 117, wherein said mutant c-Src polypeptide consists of SEQ ID NO:4.

Claim 120 (New):

The isolated transgenic cell of claim 117, wherein said recombinant construct is an expression vector.

Claim 121 (New):

An isolated transgenic cell having incorporated therein a recombinant construct, wherein said recombinant construct comprises:

- (a) a polynucleotide encoding a mutant c-Src polypeptide, wherein said polynucleotide comprises nucleotides 1 to 1593 of SEQ ID NO:3, or a full-length complement thereof; and
(b) at least one regulatory element operably linked to said polynucleotide.

Claim 122 (New):

The transgenic cell of claim 121, wherein said recombinant construct is an expression vector.

Claim 123 (New):

An isolated host cell transfected with a polynucleotide comprising a nucleotide sequence encoding a mutant c-Src polypeptide, wherein said mutant c-Src polypeptide comprises SEQ ID NO:4.

Claim 124 (New):

The isolated host cell of claim 123, wherein said nucleotide sequence comprises nucleotides 1 to 1593 of SEQ ID NO:3.

Claim 125 (New):

The isolated host cell of claim 123, wherein said mutant c-Src polypeptide consists of SEQ ID NO:4.

Claim 126 (New):

The isolated host cell of claim 123, wherein said polynucleotide further comprises a promoter operably linked to said nucleotide sequence encoding said mutant c-Src polypeptide.

Claim 127 (New):

An isolated host cell transfected with a polynucleotide comprising a nucleotide sequence encoding a mutant c-Src polypeptide, wherein said nucleotide sequence comprises nucleotides 1 to 1593 of SEQ ID NO:3, or a full-length complement thereof.

Claim 128 (New):

The isolated host cell of claim 127, wherein said polynucleotide further comprises a promoter operably linked to said nucleotide sequence encoding said mutant c-Src polypeptide.

Claim 129 (New):

An oligonucleotide capable of recognizing and distinguishing a mutant c-Src gene from a wild-type c-Src gene, wherein said mutant c-Src gene comprises a polynucleotide encoding a mutant c-Src polypeptide, and wherein said mutant c-Src polypeptide comprises SEQ ID NO:4.

Claim 130 (New):

The oligonucleotide of claim 129, wherein said polynucleotide comprises nucleotides 1 to 1593 of SEQ ID NO:3.

Claim 131 (New):

The oligonucleotide of claim 129, wherein said mutant c-Src polypeptide consists of SEQ ID NO:4.

Claim 132 (New):

The oligonucleotide of claim 129, wherein said wild-type c-Src gene comprises a polynucleotide encoding a wild-type c-Src polypeptide, wherein said wild-type c-Src polypeptide comprises SEQ ID NO:2.

Claim 133 (New):

The oligonucleotide of claim 129, wherein said wild-type c-Src gene comprises SEQ ID NO:1.

Claim 134 (New):

The oligonucleotide of claim 129, wherein said wild-type c-Src gene comprises SEQ ID NO:1 and said mutant c-Src gene comprises nucleotides 1 to 1593 of SEQ ID NO:3.

Claim 135 (New):

An oligonucleotide comprising SEQ ID NO:5.

Claim 136 (New):

An oligonucleotide capable of recognizing and distinguishing a mutant c-Src gene from a wild-type c-Src gene, wherein said mutant c-Src gene comprises a polynucleotide encoding a mutant c-Src polypeptide, and wherein said polynucleotide comprises nucleotides 1 to 1593 of SEQ ID NO:3, or a full-length complement thereof.

Claim 137 (New):

A diagnostic kit comprising an oligonucleotide capable of recognizing and distinguishing a mutant c-Src gene from a wild-type c-Src gene, wherein said mutant c-Src gene comprises a

polynucleotide encoding a mutant c-Src polypeptide, and wherein said mutant c-Src polypeptide comprises SEQ ID NO:4.

Claim 138 (New):

The diagnostic kit of claim 137, wherein said polynucleotide comprises nucleotides 1 to 1593 of SEQ ID NO:3.

Claim 139 (New):

The diagnostic kit of claim 137, wherein said mutant c-Src polypeptide consists of SEQ ID NO:4.

Claim 140 (New):

The diagnostic kit of claim 137, wherein said diagnostic kit further comprises a positive control comprising said mutant c-Src gene, and wherein said mutant c-Src gene comprises nucleotides 1 to 1593 of SEQ ID NO:3.

Claim 141 (New):

The diagnostic kit of claim 137, wherein said diagnostic kit further comprises a negative control comprising said wild-type c-Src gene, and wherein said wild-type c-Src gene comprises SEQ ID NO:1.

Claim 142 (New):

The diagnostic kit of claim 137, wherein said diagnostic kit further comprises a positive control comprising said mutant c-Src gene, wherein said mutant c-Src gene comprises nucleotides 1 to 1593 of SEQ ID NO:3; and a negative control comprising said wild-type c-Src gene, wherein said wild-type c-Src gene comprises SEQ ID NO:1.

Claim 143 (New):

The diagnostic kit of claim 137, wherein said wild-type c-Src gene comprises SEQ ID NO:1.

Claim 144 (New):

The diagnostic kit of claim 137, wherein said wild-type c-Src gene comprises SEQ ID NO:1 and said mutant c-Src gene comprises nucleotides 1 to 1593 of SEQ ID NO:3.

Claim 145 (New):

A diagnostic kit comprising an oligonucleotide capable of recognizing and distinguishing a mutant c-Src gene from a wild-type c-Src gene, wherein said oligonucleotide comprises SEQ ID NO:5.

Claim 146 (New):

A diagnostic kit comprising an oligonucleotide capable of recognizing and distinguishing a mutant c-Src gene from a wild-type c-Src gene, wherein said mutant c-Src gene comprises a polynucleotide encoding a mutant c-Src polypeptide, and wherein said polynucleotide comprises nucleotides 1 to 1593 of SEQ ID NO:3, or a full-length complement thereof.

Claim 147 (New):

A method for producing a mutant c-Src protein, said method comprising:

(a) culturing an isolated transgenic cell under conditions suitable for expression of the mutant c-Src protein, wherein the isolated transgenic cell has incorporated therein an expression vector comprising a polynucleotide encoding the mutant c-Src protein and at least one regulatory element operably linked to said polynucleotide, wherein the mutant c-Src protein comprises SEQ ID NO:4; and

(b) recovering the mutant c-Src protein from the isolated transgenic cell or cell culture.

Claim 148 (New):

The method of claim 147, wherein the polynucleotide comprises nucleotides 1 to 1593 of SEQ ID NO:3.

Claim 149 (New):

The method of claim 147, wherein the mutant c-Src protein consists of SEQ ID NO:4.

Claim 150 (New):

A method for producing a mutant c-Src protein, said method comprising:

(a) culturing an isolated host cell under conditions suitable for expression of the mutant c-Src protein, wherein the isolated host cell has been transfected with a polynucleotide comprising a nucleotide sequence encoding the mutant c-Src protein, wherein the mutant c-Src protein comprises SEQ ID NO:4; and

(b) recovering the mutant c-Src protein from the isolated transgenic cell or cell culture.

Claim 151 (New):

The method of claim 150, wherein the polynucleotide further comprises a promoter operably linked with the nucleotide sequence encoding the mutant c-Src protein.

Claim 152 (New):

The method of claim 150, wherein the polynucleotide comprises nucleotides 1 to 1593 of SEQ ID NO:3.

Claim 153 (New):

The method of claim 150, wherein the mutant c-Src protein consists of SEQ ID NO:4.